

Abstract of the Disclosure

Systems and methods for controlling power in a wireless communication system having multiple reverse-link channels. One embodiment comprises adjusting power levels of a first set of channels and a corresponding pilot channel while maintaining a set traffic-to-pilot (T/P) ratio between them, and adjusting T/P ratios for one or more remaining channels independently of the power level of the pilot channel. A base station determines whether frames received on the first set of channels contain errors and sends messages to a mobile station to increment or decrement the power levels, respectively, if the frames do or do not contain errors. T/P ratios of the additional channels are adjusted by determining whether frames received on the additional channels contain errors, incrementing or decrementing the T/P ratios appropriately, and transmitting the T/P ratios to the mobile station, which controls the transmission parameters for the respective channels in accordance with the received T/P ratios.